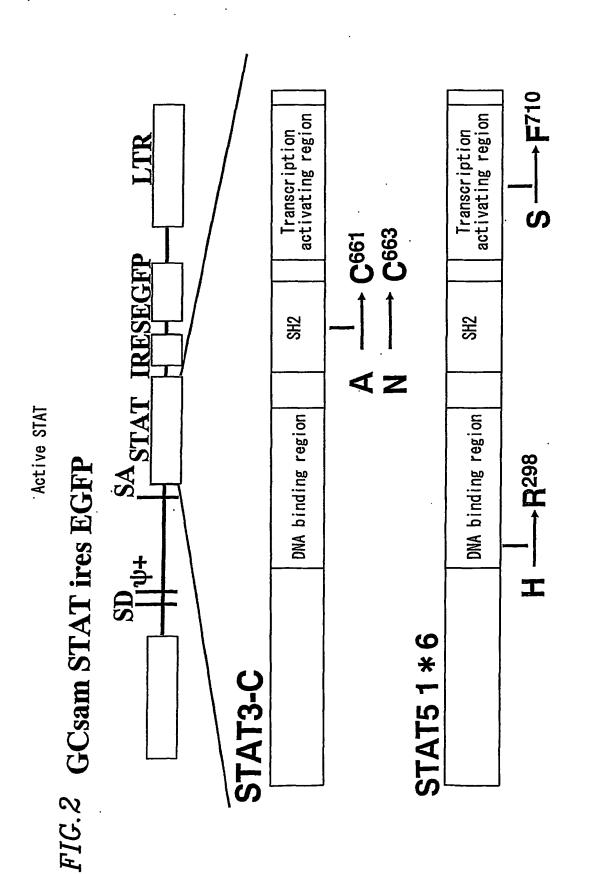
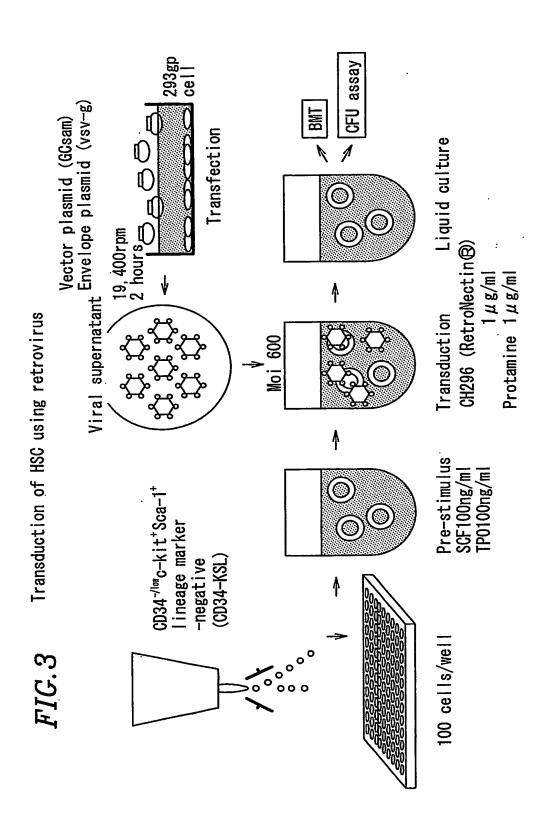
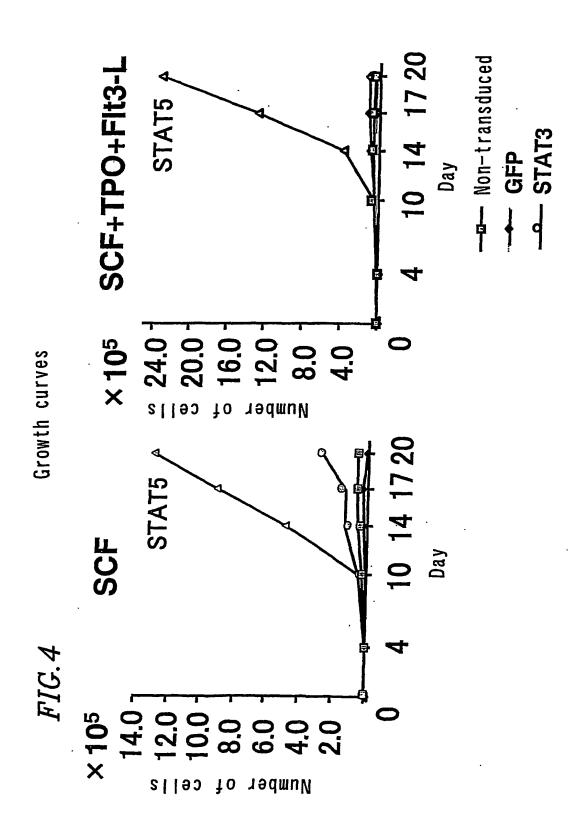
PCT/JP2003/013579

©STAT5 Self-replication signal in hematopoietic stem cell (FPO) Target gene JAK2 Akt C-⊪D MAPKK MAPK Ras) Raf Target gene CIS) gp130 JAK2 (STAT3) Cytoplasm Nucleus





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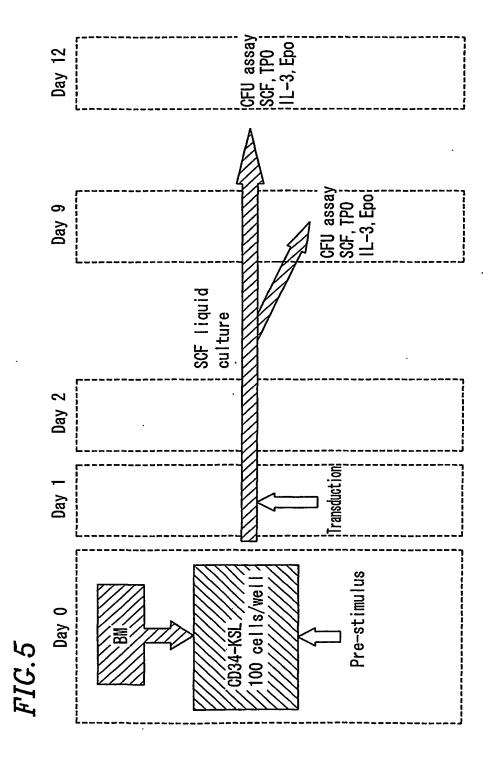
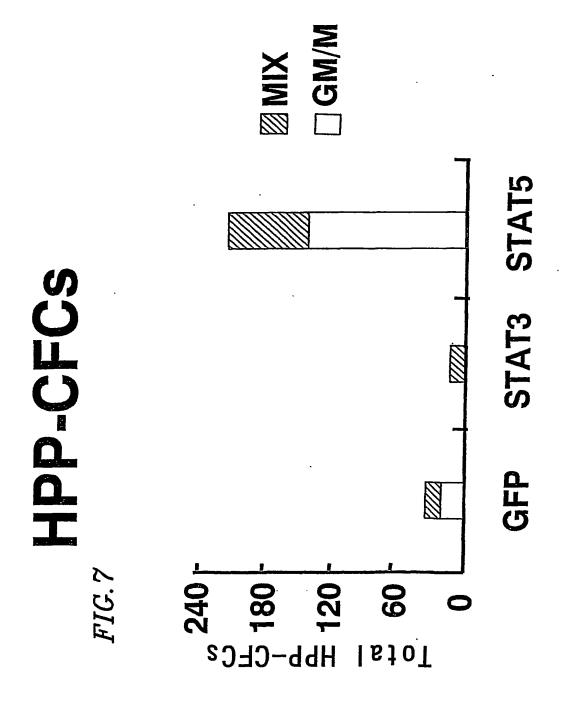


FIG. 6

Colony assay

		Day 9	6			Day	Day 12	
	Per total cells	ells	Pe	Per 10³	Per to	Per total cells		Per 10 ³
Virus	НРР	CFCs	雅	CFCs	HPP	CFCs	탈	CFCs
GFP	36	42	36	41	48	390	က	26
STAT3	12	54	15	65	36	180	က	16
STAT5	222	378	∞	14	1848	348	20	13

HPP: High Proliferative Colony Forming Cell CFC: Colony Forming Cell



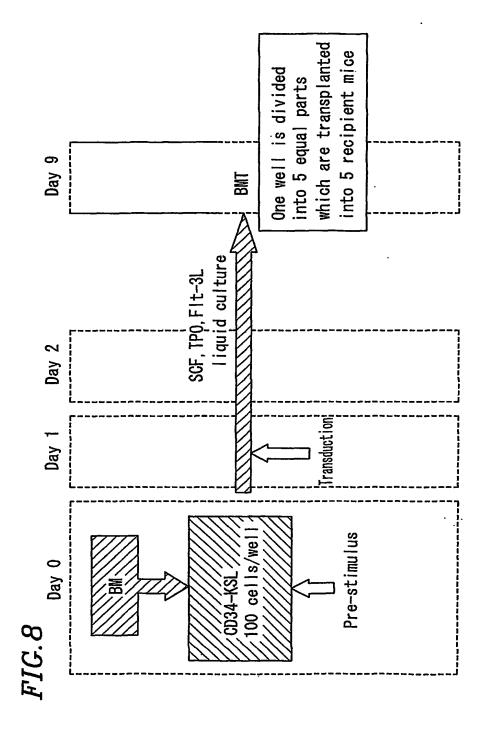


FIG. S

Reconstruction of lymphocyte and myelocyte by HSC transduced with active STAT5

Chimerism %	T Iymphocyte	ı	i	1	2.7 ± 3.5 (n = 3)
Chime	B Iymphocyte	l	ı	ı	0.3 ± 0.2 (n=3)
	No. Positive Total Bone marrow HSC mouse leukocyte cell	1	ı	ı	8.9±8.7 (n=3)
	e Total Ieukocyte	1	1	ı	12. 4±9. 2 (n=3)
	Positiv mouse	0/5	0/2	0/4	3/3
	No. HSC	20	20	20	70
	Virus	GFP	STAT5	GFP	STAT5
	Agent	SCF		SCF+TP0	+F1t-3L